**JC10 Rec'd PCT/PTO 22 JUN 2005**
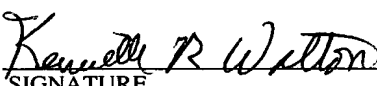
| U. S. PATENT AND TRADEMARK OFFICE U.S. DEPARTMENT OF COMMERCE | ATTORNEY'S DOCKET NUMBER ITR0046YP |
|---|---|
| **TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371** | U.S. APPLICATION NO. (If known, see 37 CFR 1.5) **10/540449** |

| INTERNATIONAL APPLICATION NO. PCT/GB2003/005536 | INTERNATIONAL FILING DATE December 18, 2003 | PRIORITY DATE CLAIMED December 27, 2002 |
|---|---|---|

TITLE OF INVENTION
N-SUBSTITUTED HYDROXYPYRIMIDINONE CARBOXAMIDE INHIBITORS OF HIV INTEGRASE

APPLICANT(S) FOR DO/EO/US
Benedetta Crescenzi, Olaf Kinzel, Ester Muraglia, Federica Orvieto, Giovanna Pescatore, Michael Rowley and Vincenzo Summa

**Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:**

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.

2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.

3. ☐ This is an express request to begin national examination procedures [35 U.S.C. 371(f)]. The submission must include items (5), (6), (9) and (21) indicated below.

4. ☐ The US has been elected (PCT Article 31).

5. ☒ A copy of the International Application as filed [35 U.S.C. 371(c)(2)]
    a. ☐ is attached hereto (required only if not communicated by the International Bureau).
    b. ☐ has been communicated by the International Bureau.
    c. ☒ is not required, as the application was filed in the United States Receiving Office (RO/US).

6. ☐ An English language translation of the International Application as filed [35 U.S.C. 371(c)(2)].
    a. ☐ is attached hereto
    b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).

7. ☐ Amendments to the claims of the International Application under PCT Article 19 [35 U.S.C. 371(c)(3)].
    a. ☐ are attached hereto (required only if not communicated by the International Bureau).
    b. ☐ have been communicated by the International Bureau.
    c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
    d. ☐ have not been made and will not be made.

8. ☐ An English language translation of the amendments to the claims under PCT Article 19 [35 U.S.C. 371(c)(3)].

9. ☒ An oath or declaration of the inventor(s) [35 U.S.C. 371(c)(4)].

10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 [35 U.S.C. 371(c)(5)].

**Items 11 to 20 below concern other document(s) or information included:**

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.

12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.

13. ☒ A preliminary amendment.

14. ☐ An Application Data Sheet under 37 CFR 1.76.

15. ☐ A substitute specification.

16. ☐ A power of attorney and/or change of address letter.

17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13*ter*.2 and 37 CFR 1.821 - 1.825.

18. ☐ A second copy of the published International Application under 35 U.S.C.154(d)(4).

19. ☐ A second copy of the English language translation of the international application under 35 U.S.C.154(d)(4).

20. ☒ Other items or information:
    1. International Search Report
    2. International Preliminary Examination Report

Computer generated form "Transletter (DO/EO/US)" PCT/Edder, Microsystems, 2/09/2005

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| U.S. APPLICATION NO. (If known, see 37 CFR 1.5) **10/540449** | INTERNATIONAL APPLICATION NO. PCT/GB2003/005536 | ATTORNEY'S DOCKET NUMBER ITR0046YP |
|---|---|---|

| The following fees are submitted: | | CALCULATIONS | PTO USE ONLY |
|---|---|---|---|
| 21. ☒ Basic national fee.................$300 | | $300.00 | |

22. ☒ Examination fee
If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)..........................**$100**

| All other situations...........................$200 | | $200.00 | |

23. ☒ Search fee
Search fee [37 CFR 1.445(a)(2)] has been paid on the international application to the USPTO as an International Searching Authority.............................$100
International Search Report prepared and provided to the Office..........................$400

| All other situations...........................$500 | | $400.00 | |
| **TOTAL OF 21, 22 and 23=** | | $900.00 | |

☒ Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium).  The fee is **$250** for each additional 50 sheets of paper or fraction thereof.

| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof (round **up** to a whole number) | RATE | | |
|---|---|---|---|---|---|
| 111  - 100 = | 11  /50 | 0.22    = 1 | X  $250.00 | $250.00 | |

Surcharge of **$130.00** for furnishing the oath or declaration later than 30 months from the earliest claimed priority date [37 CFR 1.492(e)].

| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | | |
|---|---|---|---|---|---|
| Total Claims | 15  - 20 = | 0 | X  $50.00 | $0.00 | |
| Independent Claims | 1  - 3 = | 0 | X  $200.00 | $0.00 | |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) | | | +  $360.00 | | |
| **TOTAL OF ABOVE CALCULATIONS (SUBTOTAL)   =** | | | | $1,150.00 | |

Processing fee of **$130.00** for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).                                    +

| **TOTAL NATIONAL FEE   =** | | $1,150.00 | |
|---|---|---|---|

Fee for recording the enclosed assignment [37 CFR 1.21(h)].  The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31).  **$40.00** per property.          +

| **TOTAL FEES ENCLOSED   =** | | $1,150.00 | |
|---|---|---|---|

| | Amount to be refunded: | |
|---|---|---|
| | Amount to be charged: | |

a. ☐ A check in the amount of $ _____ to cover the above fees is enclosed.

b. ☒ Please charge my Deposit Account No. 13-2755 in the amount of $1,150.00 to cover the above fees. A duplicate copy of this sheet is enclosed.

c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to the Deposit Account No. 13-2755.  A duplicate copy of this sheet is enclosed.

**NOTE:  Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive [37 CFR 1.137(a) or (b)] must be filed and granted to restore the International Application to pending status.**

SEND ALL CORRESPONDENCE TO:

Customer No. 000210

MERCK & CO., INC.
Patent Department, RY60-30
P.O. Box 2000
126 East Lincoln Avenue
Rahway, New Jersey 07065-0970

DATE:  June 22, 2005

PHONE #:  (732) 594-3462

*Kenneth R Walton* (signature)
SIGNATURE

Kenneth R. Walton
NAME

32,951
REGISTRATION NUMBER